-15EPIJKR 59200 WO

PATENT COOPERATION TREATY

06 DEC 2004 SFF

## From the INTERNATIONAL SEARCHING AUTHORITY

To: JENNIFER K. ROSENFIELD EDWARD & ANGELL, LLP P.O. BOX 9169 BOSTON, MASSACHUSETTS 02209

Applicant's or agent's file re

59200-PCT

RECEIVED

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DWARDS & ANGELL,

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

H	(PCT Rule 44.1)	
	Date of Mailing (day/month/year) 26 MAR 2004	
	FOR FURTHER ACTION See paragraphs 1 and 4 below	
	International filing date (day/month/year)	
	06 June 2003 (06.06.2003)	

International application No. PCT/US03/17903			n No.	International filing date (day/month/year) 06 June 2003 (06.06.2003)
	plicant IE JOHI	N HOPKINS	SUNIVERSITY	
1.	$\boxtimes$	The applica	nt is hereby notified that the international searc	h report has been established and is transmitted herewith.
	Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):			ms of the international application (see Rule 46):
		When?	The time limit for filing such amendments is international search report.	normally two months from the date of transmittal of the
		Where?	Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.:	
		For more	e detailed instructions, see the notes on the ac	
2.	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.			
3.		With regar	d to the protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
		no dec	ision has been made yet on the protest; the app	licant will be notified as soon as a decision is made.
4.	Remin	ders		
	Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.			
	Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
	In resp	ect of other	DUBAGE designated Offices, the time limit of 30 month	s (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450

Guide, Volume II, National Chapters and the WIPO Internet site.

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002) Authorized officer

Stephone B. Allen

Telephone No. (571) 272-1550





# From the INTERNATIONAL SEARCHING AUTHORITY

To: JENNIFER K. ROSENFIELD EDWARD & ANGELL, LLP P.O. BOX 9169 BOSTON, MASSACHUSETTS 02709  MAR 3 1 2004  EDWARDS & ANGELL, LL IP DOCKETING OF THE POCKETING OF THE POCKETING OF THE POCKETING OF THE POCKETING OF THE POCKET	(PCT Rule 44.1)	
IP DOCKETING DEPT. (BO	\$)II ate of Mailing (day/month/year)	
Applicant's or agent's file reference 59200-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US03/17903	International filing date (day/month/year)  06 June 2003 (06.06.2003)	
Applicant THE JOHN HOPKINS UNIVERSITY		
The applicant is hereby notified that the international se	report has seed and is transmitted herewith.	
Filing of amendments and statement under Article 1 The applicant is entitled, if he so wishes, to amend the	ims of the in all application (see Rule 46):	
When? The time limit for filing such amendments international search report.	normally two s from the date of transmittal of the	
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No		
For more detailed instructions, see the notes on the a		
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	ch report will be established and that the declaration under	
3. With regard to the protest against payment of (an) addit	tional fee(s) under Rule 40.2, the applicant is notified that:	
	en transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.	
no decision has been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.	
4. Reminders		
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3; respectively, before the completion of the technical preparations for international publication.		
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.		
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.		
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet site	e applicable time limits, Office by Office, see the PCT Applicant's	
Name and mailing address of the ISA/US	Authorized officer	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Stephone B. Allen	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Telephone No. (571) 272-1550	
Form PCT/ISA/220 (April 2002)  (See notes on accompanying shee		



# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 59200-PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No. PCT/US03/17903	International filing date (day) 06 June 2003 (06.06.2003)			
Applicant THE JOHN HOPKINS UNIVERSITY				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.				
This international search report consists of a total of 5 sheets.  It is also accompanied by a copy of each prior art document cited in this report.				
Basis of the Report     a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
Authority (Rule 23. b. With regard to any nu	(b)).	ranslation of the international application furnished to this disclosed in the international application, the international		
contained in the inte	rnational application in written form.			
filed together with t	ne international application in compute	er readable form.		
furnished subsequen	tly to this Authority in written form.			
furnished subsequen	tly to this Authority in computer reada	able form.		
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
the statement that the been furnished.	e information recorded in computer re	eadable form is identical to the written sequence listing has		
2. Certain claims wer	e found unsearchable (See Box I).			
	s lacking (See Box II).			
4. With regard to the title,	busined by the applicant			
	as submitted by the applicant.	Tellows.		
Please See Continuation Sheet	ablished by this Authority to read as fo	ollows:		
5. With regard to the abstract,				
the text is approved	as submitted by the applicant.			
the text has been est within one month fr	ablished, according to Rule 38.2(b), bom the date of mailing of this internation	by this Authority as it appears in Box III. The applicant may, tional search report, submit comments to this Authority.		
as suggested by the because the applican	o be published with the abstract is Fig applicant.  It failed to suggest a figure.  Detter characterizes the invention.	gure No. <u>2B</u> None of the figures		





# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/17903

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
	Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
	Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3.	Claim Nos.: 5-19 and 27-36 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Obs	ervations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
This Internation	onal Searching Authority found multiple inventions in this international application, as follows:	
	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on P	rotest The additional search fees were accompanied by the applicant's protest.	
	No protest accompanied the payment of additional search fees.	





International application No.

PCT/US03/17903

### Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

#### **NEW ABSTRACT**

Featured are methods for the direct microscopic visualization of samples (9) using an image intensifier (140) that intensifies low levels of visible light and converts far-red or near-infra-red light to visible light. Also featured are devices and systems for use in the methods of the invention.



Form PCT/ISA/210 (second sheet) (July 1998)

# INTERNATIONAL SEARCH REPORT

**O**.

International application No.

PCT/US03/17903

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : H01J 40/14, 31/50  US CL : 250/214VT, 332, 339.02, 339.12, 339.14; 356/311  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 250/214VT, 332, 339.02, 339.12, 339.14; 356/303  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	US 3,758,778 A (BRAUNLICH) 11 September 1973	(11.09.1973), see entire document.	1-4, 20-26
x	US 6,121,616 A (TRIGG) 19 September 2000 (19.09	9.2000), see entire document.	1-4, 20-26
Formula	r documents are listed in the continuation of Box C.	See patent family annex.	
		"T" later document published after the inte	rnational filing date or priority
"A" document of particu	special categories of cited documents:  It defining the general state of the art which is not considered to be all relevance	date and not in conflict with the applic principle or theory underlying the inve "X" document of particular relevance; the	ation but cited to understand the ention claimed invention cannot be
"L" documen establish specified		considered novel or cannot be considered to involve an inventive step when the document is taken alone  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" documen	it referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e art
priority o	at published prior to the international filing date but later than the	"&" document member of the same patent	
Date of the actual completion of the international search  Date of mailing of the international search report			
	2004 (14.02.2004)	Authorized officer	6 MAR 2004
Ma Co P.( Ale	uailing address of the ISA/US uil Stop PCT, Attn: ISA/US mmissioner for Patents D. Box 1450 exandria, Virginia 22313-1450	Authorized officer Stephone B. Allen Telephone No. (571) 272-1550	0 20
Facsimile N	o. (703) 305-3230	1	Mesto Make



# INTERNATIONAL SEARCH REPORT

PCT/US03/17903

Continuation of Item 4 of the first sheet: Long Title under PCT Rule 4.3: New Title: NIGHT-VISION INTENSIFIER FOR DIRECT MICROSCOPIC VISUALIZATION OF FAR-RED AND NIR FLUOURESCENCE			
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	·		
·			
Continuation of B. FIELDS SEARCHED Item 3: USPTO EAST DATABASE search terms: microscope same intensi\$7 and ((infrared or ir) and (	ÚSPTO EAST DATABASE		
	*		

Form PCT/ISA/210 (second sheet) (July 1998)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the internation search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Pureau, also file with the International Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

#### NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

# What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

# What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.